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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/821,703	04/09/2004	Michael T. Parker	381-27-058	1543
23935 75	90 06/29/2006		EXAMINER	
KOPPEL, PATRICK & HEYBL			TERESINSKI, JOHN	
555 ST. CHARLES DRIVE SUITE 107			ART UNIT	PAPER NUMBER
THOUSAND OAKS, CA 91360			2858	
			DATE MAILED: 06/29/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

1) Responsive to communication(s) filed on 30 Mey 2006. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-16 is/are pending in the application. 4a) Of the above claim(s) 11-16 is/are withdrawn from consideration. 5) Claim(s) 1-10 is/are allowed. 6) Claim(s) 1-10 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 1-10 is/are rejected. 7) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 25 August 2004 is/are: a) cacepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
## Examiner		Application No.	Applicant(s)				
John Teresinski John Tere	Office Action Summan	·	PARKER, MICHAEL T.				
The MAILING DATE of this communication appears on the cover sheef with the correspondence address—Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHIGHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Edulations of time may be available under the provisions of 3CTR 1.13(6), in to event, horsers, may reply be limited field 1 NO period for reply is appelled above, the maximum station product will apply and will expire SIX (8) MONTHS from the mailing date of this communication. Failure to reply which has end received period for reply it appelled above, the maximum station product will apply and will expire SIX (8) MONTHS from the mailing date of this communication, even if timely filed, may reduce any served patricl must explorate. Failure to reply which has end or exceed patricle product for sply in application. Provided prior that supplication is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-16 is/are pending in the application. 4a) Of the above claim(s) 11-16 is/are withdrawn from consideration. 5) Claim(s) 1-16 is/are objected to. 8) Claim(s) 1-16 is/are objected to. 8) Claim(s) 1-16 is/are objected to. 8) Claim(s) 1-16 is/are objected to by the Examiner. 10) The drawing(s) filed on 25 August 2004 is/are: a) accepted or b) objected to by the Examiner. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 25 August 2004 is/are: a) accepted or b) objected to by the Examiner. Application Papers 9) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some objected to by the Examiner. Note the attached Office Action or form PTC-152. Priority under 35 U.S.C. § 119 10) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). 3) All b) S	Office Action Summary	Examiner	Art Unit				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extension of time may be available under the profetions of 37 CPR 1.138(a). In no worm, however, may a may be timely filled. - If the period of may in specified body, the maximum stutisticity period will gay had will eight 50% (MONTHS from the mailing date of this communication, and the mailing date of this communication, and the mailing date of this communication, and the mailing date of this communication, even if timely filled, may reduce any secured parent turns department. Sea 37 CPR 1.748(b). - Paluve to reply the Specified than the through secure turns department. Sea 37 CPR 1.748(b). - Paluve turns department. Sea 37 CPR 1.748(b). - Claim(s) 1.16 Is/are pending in the application. - 4a) Of the above daim(s) 11.16 Is/are withdrawn from consideration. - Claim(s) 1.16 Is/are allowed. - Paluve turns department department department. - Application Papers - The specification is objected to by the Examiner. - The specification is objected to by the Examiner. - The specification is objected to by the Examiner. - The specification is objected to by the Examine							
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Paper No(s)/Mail Date <u>7/1/04, 11/26/2004</u> . 6)	3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) Notice of Informal Patent Application (PTO-152)						

DETAILED ACTION

Election/Restrictions

Claims 11-16 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim.

Election was made without traverse in the reply filed on May 30, 2006.

Drawings

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the method steps in claims 1-10 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will

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be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-10 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent No. U.S. Patent No. 5,485,093 to Russell et al..

Regarding claim 1, Russell et al. disclose a method for detecting arcing conditions on a power line including averaging the value of at least a portion of a first cycle of an AC power signal (ie. sampling a paraemeter of power line, column 2 lines 63-67); averaging the value of a similar portion of a second cycle of said AC power signal (ie. providing a plurality of samples of power line data, column 8 lines 1-12, 35-43); calculating an adjustment factor based on the averaging of said at least portions of said first and second cycles, said adjustment factor having a value to compensate for changes in the amplitude between the first and second cycle portions (column 9 lines 52-57); applying said adjustment factor to said second cycle portion to form an adjusted second cycle portion (column 9 lines 63-68, column 10 lines 1-10, column 11 lines 32-37); and comparing said first cycle portion to said adjusted second cycle portion to determine if there is an arcing signal on said AC power signal (column 12 lines 49-63).

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Regarding claim 2, Russell et al. disclose activating an arcing alarm if a dangerous arcing signal is found (column 6 lines 5-7).

Regarding claim 3, Russell et al. disclose sampling the power signal and a digital representation of said power signal is used for said averaging, calculating, applying and comparing (column 5 lines 5-10).

Regarding claims 4 and 7, Russell et al. disclose first cycle represents the present cycle of said power signal and said second cycle represents a future cycle of said power signal (ie. second cycles represent successive cycles, column 5 lines 33-44, column 7 lines 64-67).

Regarding claims 5, 8 and 9, Russell et al. disclose an adjustment factor comprises a fraction wherein either said first or second cycle averaging is the numerator and the other is the denominator wherein the adjustment factor based on the averaging of at least a portion of said present cycle and the averaging of at least a portion of either said past or future cycles (ie. adjustment factor is based on an average of sampled data, column 9 lines 26-43).

Regarding claim 6, Russell et al. disclose the second cycle is either a past or future cycle of said signal, said adjustment factor applied to said second cycle (ie. second cycle is provided from sampled data buffer, column 9 lines 37-69).

Regarding claim 10, Russell et al. disclose generating an alarm if said analyzing said arc signal artifact waveform determines that a dangerous arcing condition exists (column 6 lines 5-7).

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Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The following is cited to further show the state of the art with respect to methods for determining arcing in general:

U.S. Patent No. 4,446,071 to Russell Jr. discloses an apparatus for detecting the presence of an arc fault (column 27 lines 35-68).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John Teresinski whose telephone number is (571) 272-2235. The examiner can normally be reached on M-F 8:30 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Diane Lee can be reached on (571) 272-2399. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JT June 21, 2006

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